GCG | AUTOMATION & FACTORY SOLUTIONS

Motion Control 1 in the TIA Portal
Nashville, TN

SIMATIC - Motion Control 1 in the TIA Portal

2.0 CEUs (Continuing Education Credits)

In this technology course, attendees will program the SIMATIC S7-1500 or S7-1200 controllers in the TIA Portal. They will be able to precisely control the motion of axes with the integrated motion control functions while learning step by step the benefits and use of these functions.

After each learning step, attendees will deepen their knowledge through hands-on programming. After attending the course, they will understand the interaction of the technological functions. Each learner will be able to select and configure appropriate technology objects, such as speed axis, positioning axis and synchronous axis, as well as, integrate them into the program.

Objectives:

Upon Completion of this course, the student shall be able to:

- Precisely control the motion of axes with the integrated motion control functions.
- Interpret the interaction of the technological functions.
- Commission the SINAMICS servo controller for use in the TIA Portal.
- Select and configure appropriate technology objects, such as: speed axis positioning axis, synchronous axis and integrate them into a program.

**Class size must reach 6 participants or it may be subject to cancellation.*

Topics:

1. Basics of motion control
2. Speed Axis technolgy object
3. Positioning Axis technology object
4. Homing and travesing movements
5. Programming with PLC open
6. Error messages and diagnostics
7. Communication and libraries
8. Output cam and measuring input
9. Closed-loop control and optimization
10. Synchronous Axis technology object
11. Practical exercies on training devices with SIMATIC S7-1500 and SINAMICS drives

Date: August 3-5, 2026

Location: **Nashville, TN**
1854 Air Lane Dr., Suite 20
Nashville, TN 37210

Time: 8:30 a.m. to 4:30 p.m.

Cost: $3,300.00

Registration: CLICK HERE or Scan QR Code

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